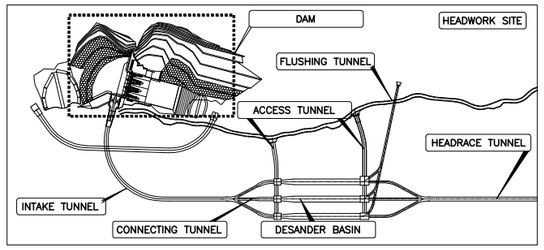
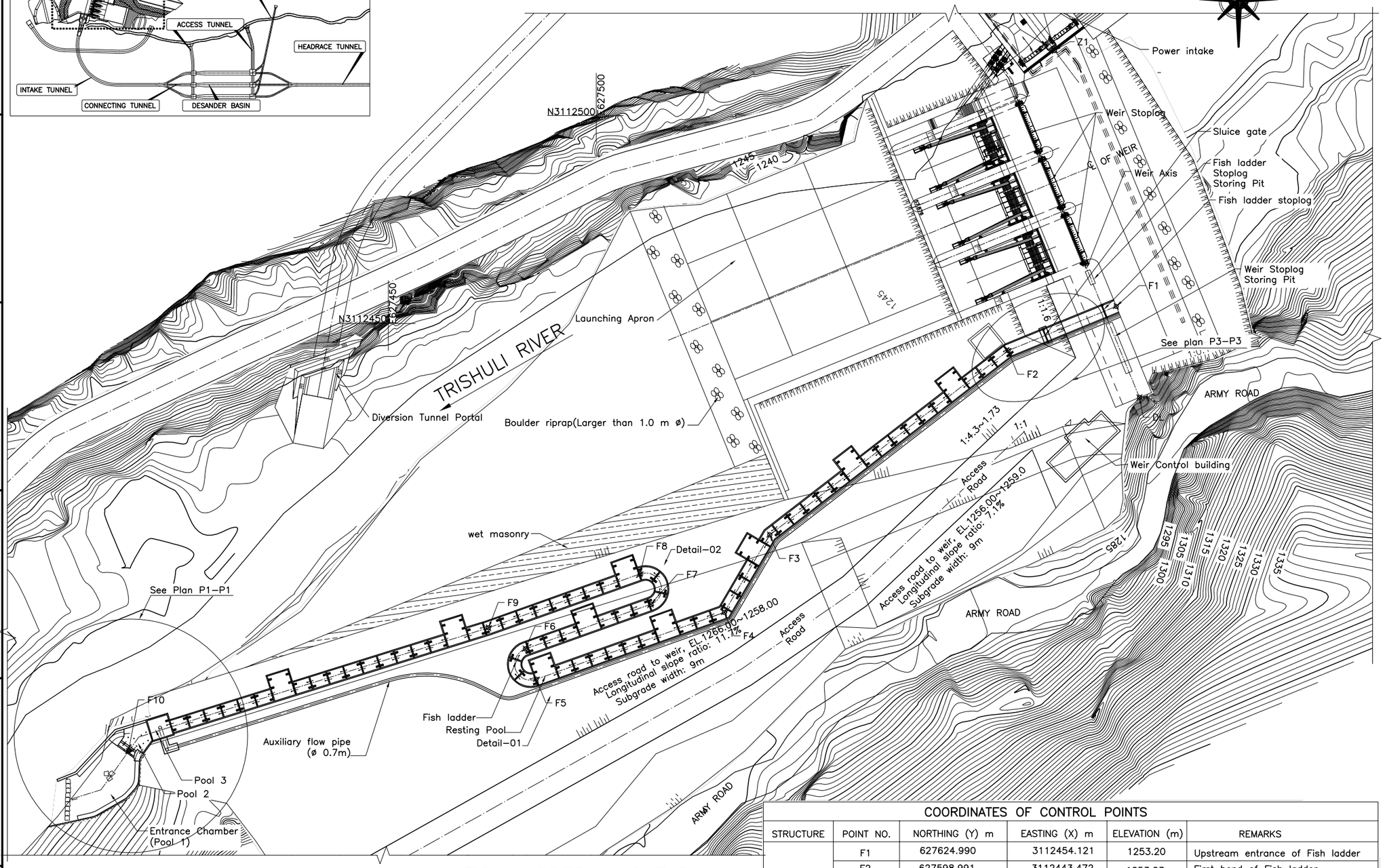
KEY PLAN





FISH LADDER LAYOUT PLAN

Scale 1:1000

COORDINATES OF CONTROL POINTS

STRUCTURE	POINT NO.	NORTHING (Y) m	EASTING (X) m	ELEVATION (m)	REMARKS
Fish ladder	F1	627624.990	3112454.121	1253.20	Upstream entrance of Fish ladder
	F2	627598.991	3112443.472	1253.03	First bend of Fish ladder
	F3	627541.698	3112399.196	1248.125	Second bend of Fish ladder
	F4	627530.775	3112380.573	1246.625	Third bend of Fish ladder
	F5	627485.555	3112364.484	1243.325	Start of fourth bend of Fish ladder
	F6	627482.957	3112371.785	1243.525	End of fourth bend of Fish ladder
	F7	627513.131	3112382.521	1240.325	Start of fifth bend of Fish ladder
	F8	627510.529	3112389.822	1239.525	End of fifth bend of Fish ladder
	F9	627474.100	3112376.863	1237.025	Sixth bend of Fish ladder
	F10	627387.562	3112347.157	1231.375	End of Downstream entrance of Fish ladder

NOTE

1. All dimensions are in m, levels are in m above msl unless otherwise mentioned.
2. This drawing is a draft design of the fish ladder and is subjected to the detail design.

m 10 0 10 20 30 40m

Scale 1:1000

REFERENCE DRAWINGS

UT1–C–020–CVL–DG–44004–0A	CONCRETE OUTLINE DRAWING OF WEIR

SYMBOL AND LEGEND

C24/Primary Concreting
Backfill
Elevation lines
Section lines
C30 Concrete
C50 Concrete

FOR INFORMATION

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REV. NO.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0A	19.OCT.2023	For Information	ShG/SaP	PRATIK B.	AJOY K.

PROJECT TITLE

Upper Trishuli–1 HEP (216 MW)

OWNER

NWEDC

OWNER'S ENGINEER

TRACTEBEL ENGIE jade CONSULT

CONTRACTOR

DOOSAN Enerbility

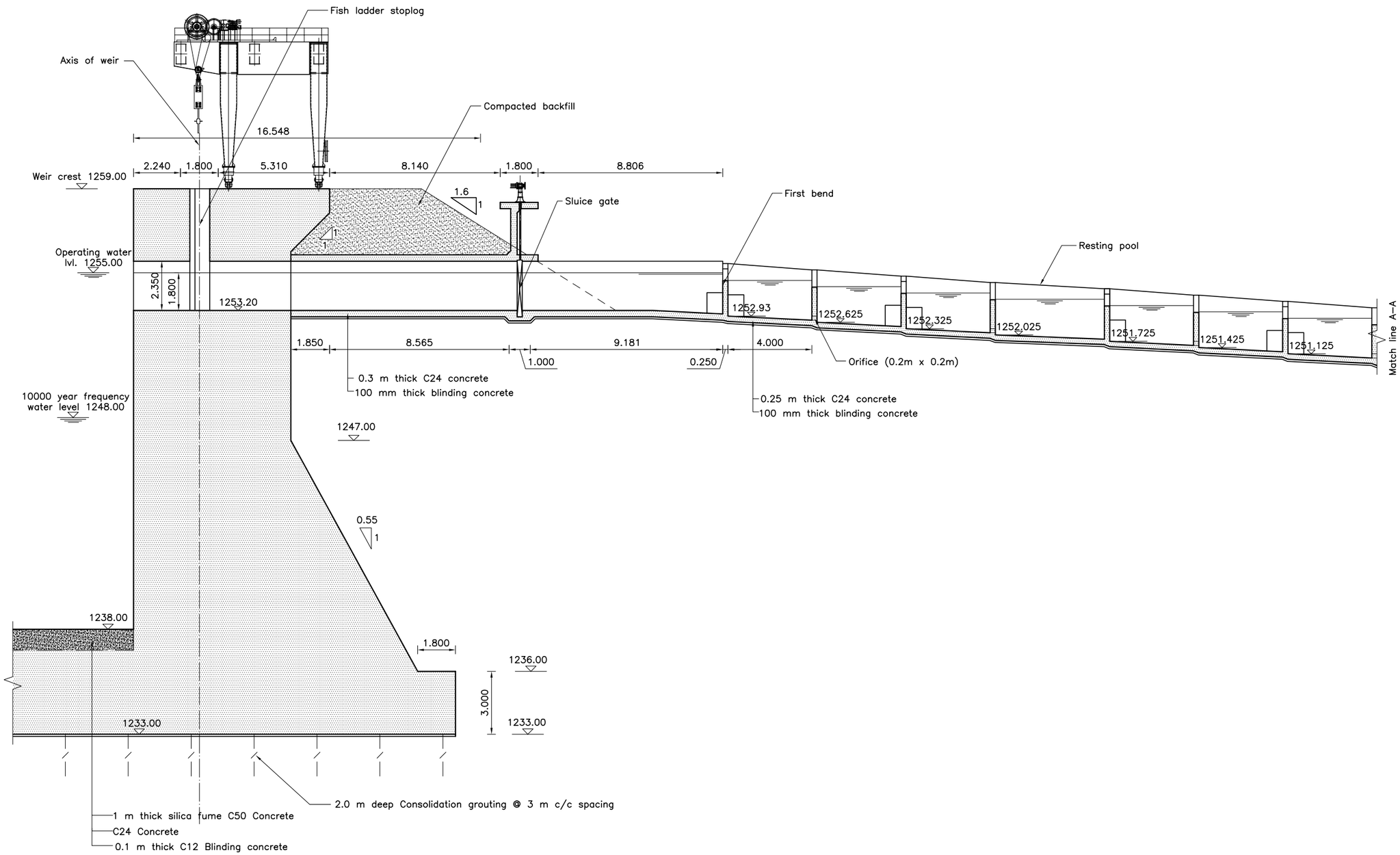
DRAWING TITLE

LAYOUT DRAWING OF FISH LADDER

PLAN

DRAWING NUMBER	SHEET NO.	REV. NO.
UT1–C–050–CVL–DG–49001–01	01 OF 09	0A

A3 (297 x 420 mm)



LONGITUDINAL PROFILE OF FISH LADDER

Scale 1:200

NOTE

1. All dimensions are in m, levels are in m above msl unless otherwise mentioned.
2. This drawing is a draft design of the fish ladder and is subjected to the detail design.

m 2 0 2 4 6 8 m

Scale 1:200

REFERENCE DRAWINGS

UT1–C–020–CVL–DG–44004–0A	CONCRETE OUTLINE DRAWING OF WEIR

SYMBOL AND LEGEND

- C24/Primary Concreting
- Backfill
- Elevation lines
- Section lines
- C30 Concrete
- C50 Concrete

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REV. NO.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0A	19.OCT.2023	For Information	ShG/SaP	PRATIK B.	AJOY K.

PROJECT TITLE

Upper Trishuli–1 HEP (216 MW)

OWNER

NWEDC

OWNER'S ENGINEER

TRACTEBEL ENGIE · jade CONSULT

CONTRACTOR

DOOSAN Enerbility

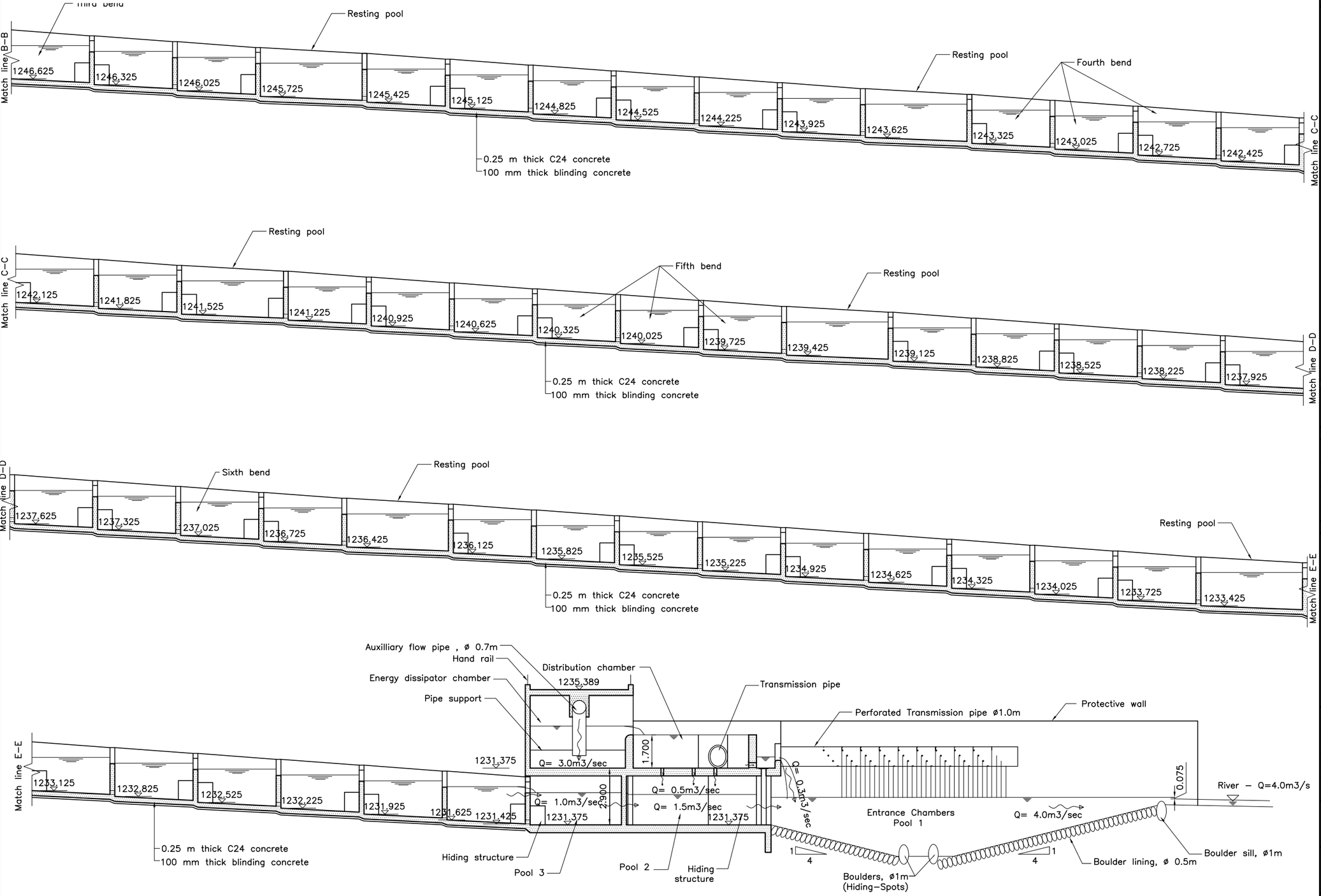
DRAWING TITLE

LAYOUT DRAWING OF FISH LADDER

PROFILE

DRAWING NUMBER	SHEET NO.	REV. NO.
UT1–C–050–CVL–DG–49001–02	02 OF 09	0A

A3 (297 x 420 mm)



LONGITUDINAL PROFILE OF FISH LADDER

Scale 1:200

NOTE

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2. This drawing is a draft design of the fish ladder and is subjected to the detail design.

m 2 0 2 4 6 8 m

Scale 1:200

REFERENCE DRAWINGS

UT1–C–020–CVL–DG–44004–0A	CONCRETE OUTLINE DRAWING OF WEIR

SYMBOL AND LEGEND

- C24/Primary Concreting
- Backfill
- Elevation lines
- Section lines
- C30 Concrete
- C50 Concrete

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REV. NO.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0A	19.OCT.2023	For Information	ShG/SaP	PRATIK B.	AJOY K.

PROJECT TITLE

Upper Trishuli–1 HEP (216 MW)

OWNER

NWEDC

OWNER'S ENGINEER

TRACTEBEL ENGIE | jade CONSULT

CONTRACTOR

DOOSAN Enerbility

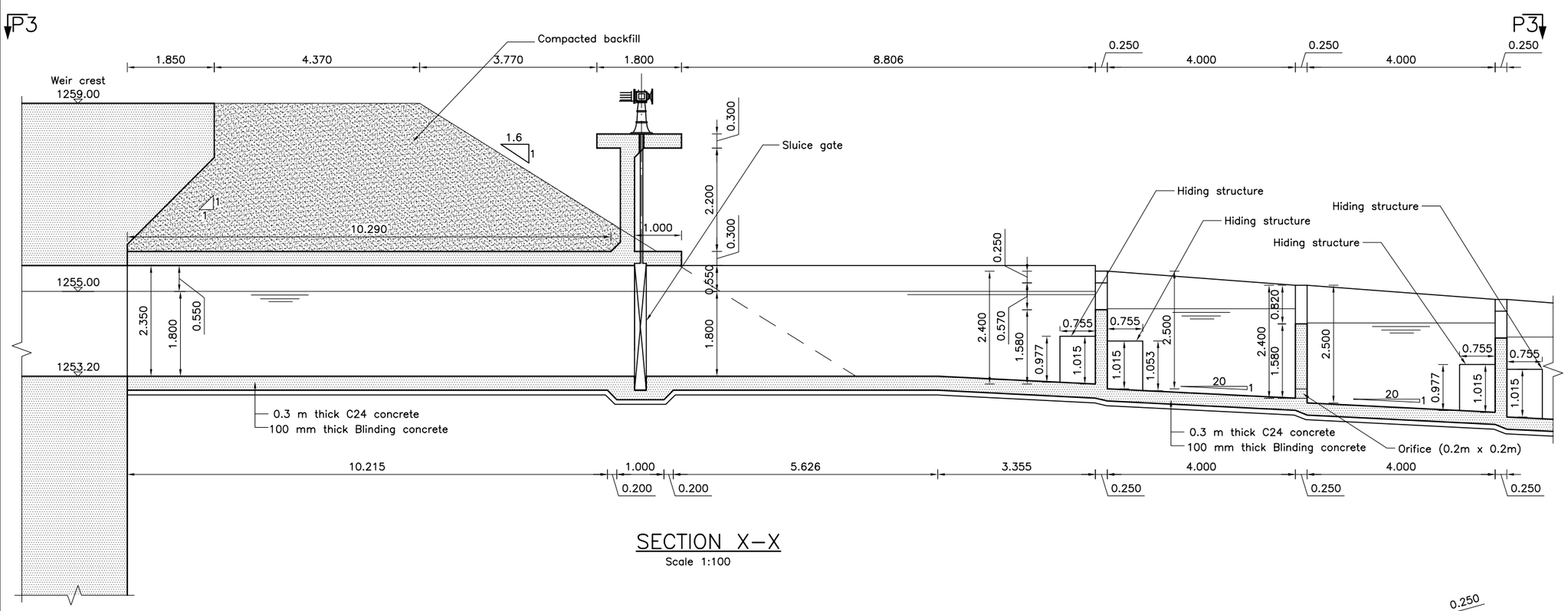
DRAWING TITLE

LAYOUT DRAWING OF FISH LADDER

PROFILE

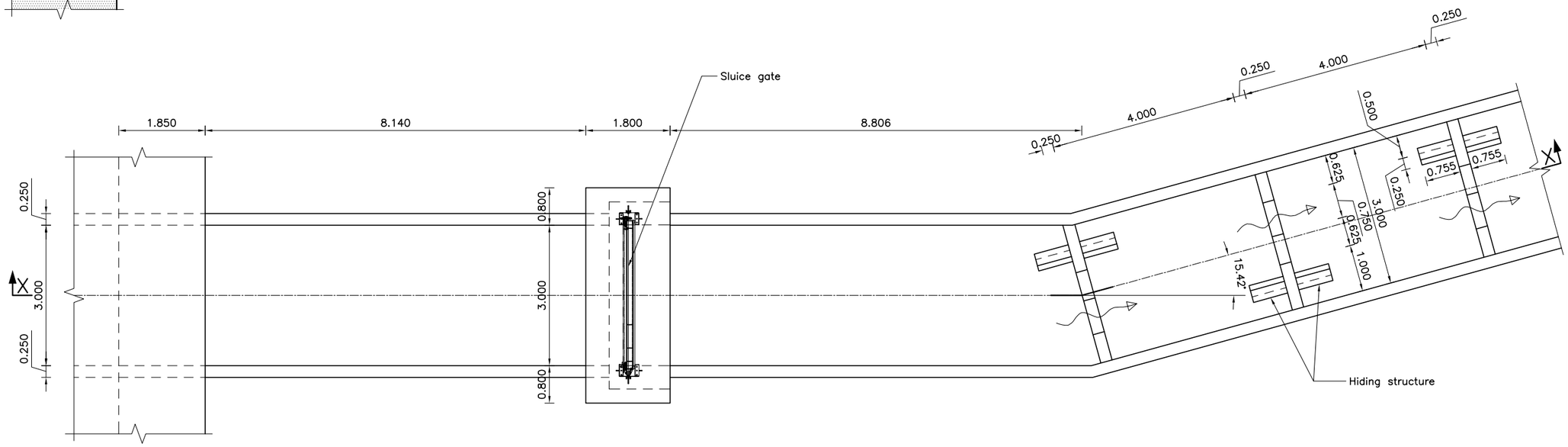
DRAWING NUMBER	SHEET NO.	REV. NO.
UT1–C–050–CVL–DG–49001–03	03 OF 09	0A

A3 (297 x 420 mm)



SECTION X–X

Scale 1:100



PLAN P3–P3

Scale 1:100

NOTE

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m 1 0 1 2 3 4 m

Scale 1:100

REFERENCE DRAWINGS

UT1–C–020–CVL–DG–44004–0A	CONCRETE OUTLINE DRAWING OF WEIR

SYMBOL AND LEGEND

- C24/Primary Concreting
- Backfill
- Elevation lines
- Section lines
- C30 Concrete
- C50 Concrete

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REV. NO.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0A	19.OCT.2023	For Information	ShG/SaP	PRATIK B.	AJOY K.

PROJECT TITLE

Upper Trishuli–1 HEP (216 MW)

OWNER

NWEDC

OWNER'S ENGINEER

TRACTEBEL ENGIE | jade CONSULT

CONTRACTOR

DOOSAN Enerbility

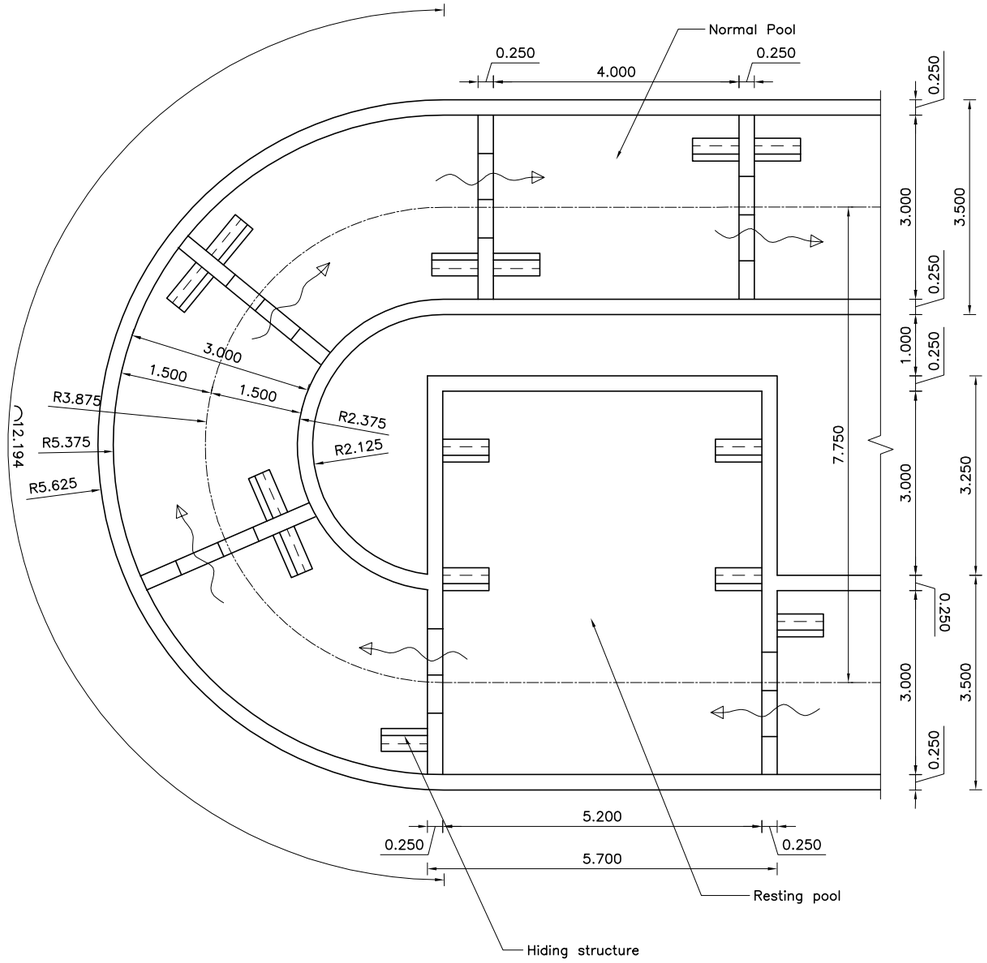
DRAWING TITLE

LAYOUT DRAWING OF FISH LADDER

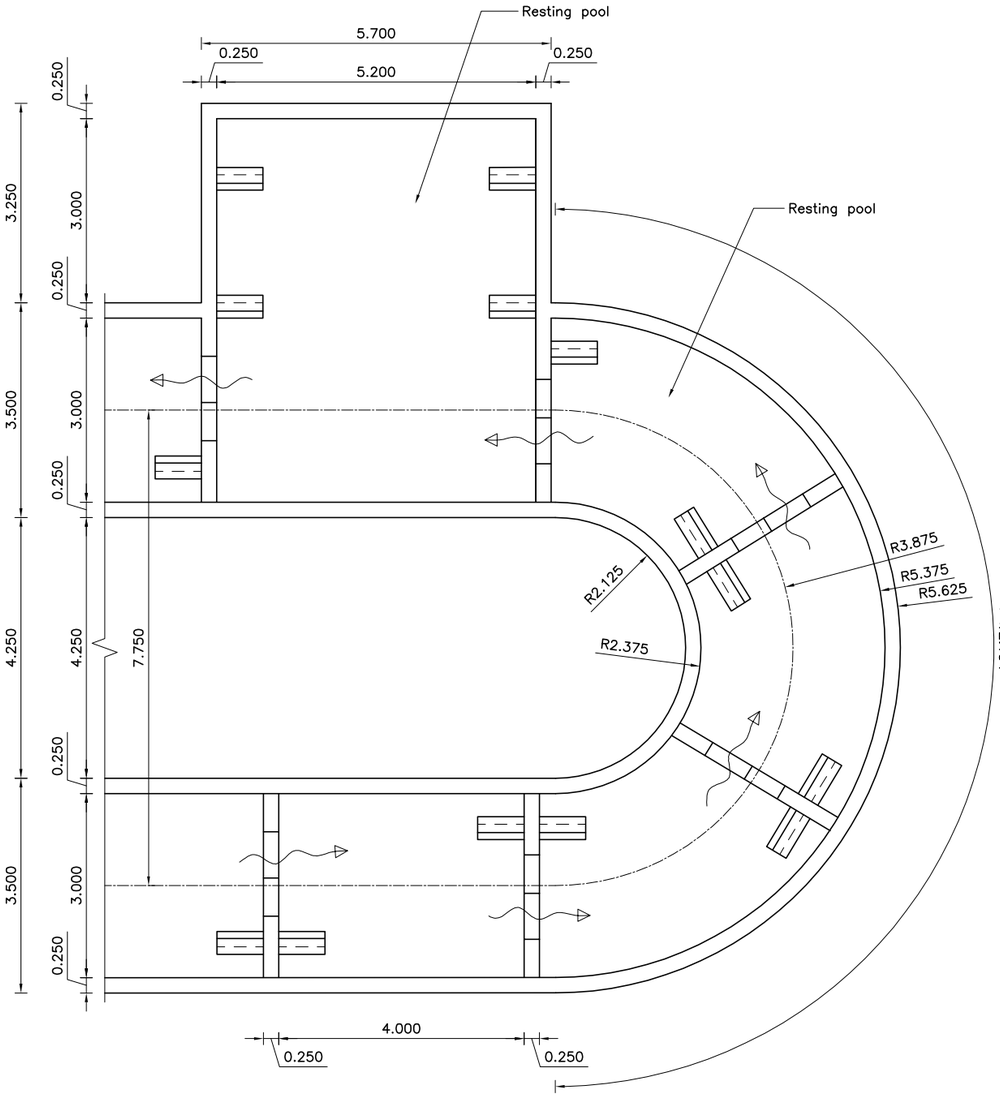
PLAN AND SECTION

DRAWING NUMBER	SHEET NO.	REV. NO.
UT1–C–050–CVL–DG–49001–04	04 OF 09	0A

A3 (297 x 420 mm)



DETAIL–01
(Fourth bend)
Scale 1:100



DETAIL–02
(Fifth bend)
Scale 1:100

NOTE

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2. This drawing is a draft design of the fish ladder and is subjected to the detail design.

m 1 0 1 2 3 4 m
Scale 1:100

REFERENCE DRAWINGS

UT1–C–020–CVL–DG–44004–0A	CONCRETE OUTLINE DRAWING OF WEIR

SYMBOL AND LEGEND

- C24/Primary Concreting
- Backfill
- Elevation lines
- Section lines
- C30 Concrete
- C50 Concrete

FOR INFORMATION

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REV. NO.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0A	19.OCT.2023	For Information	ShG/SaP	PRATIK B.	AJOY K.

PROJECT TITLE
Upper Trishuli–1 HEP (216 MW)

OWNER
NWEDC

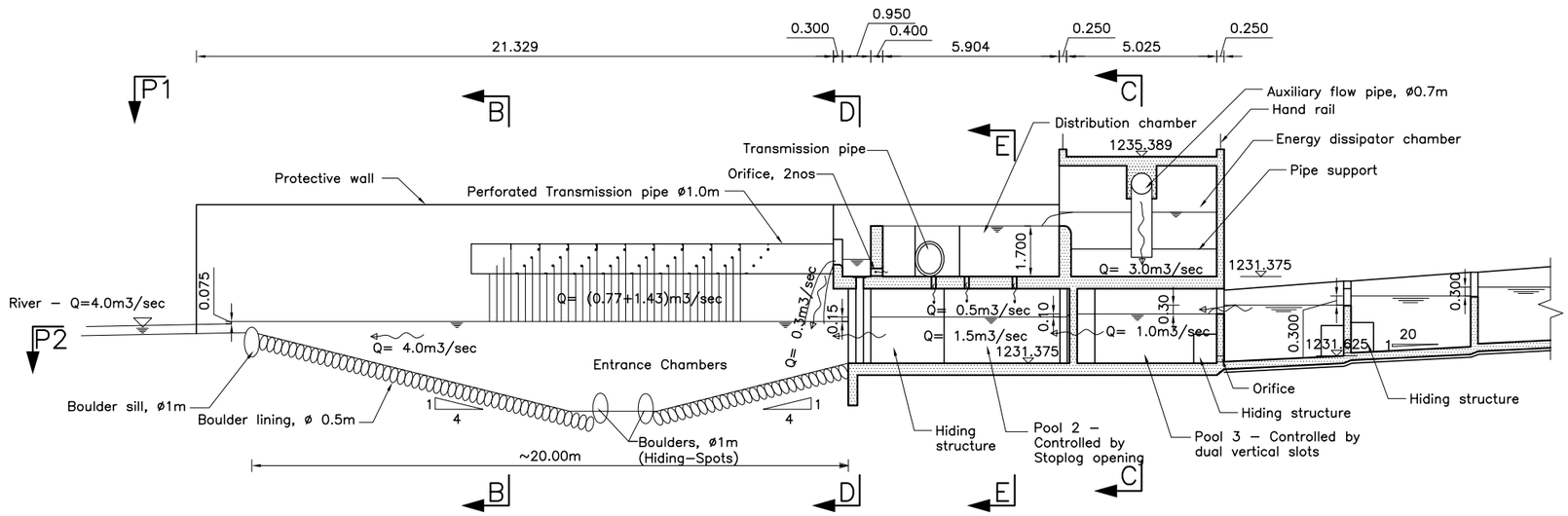
OWNER'S ENGINEER
TRACTEBEL ENGIE | jade CONSULT

CONTRACTOR
DOOSAN Enerbility

DRAWING TITLE
LAYOUT DRAWING OF FISH LADDER
DETAILS

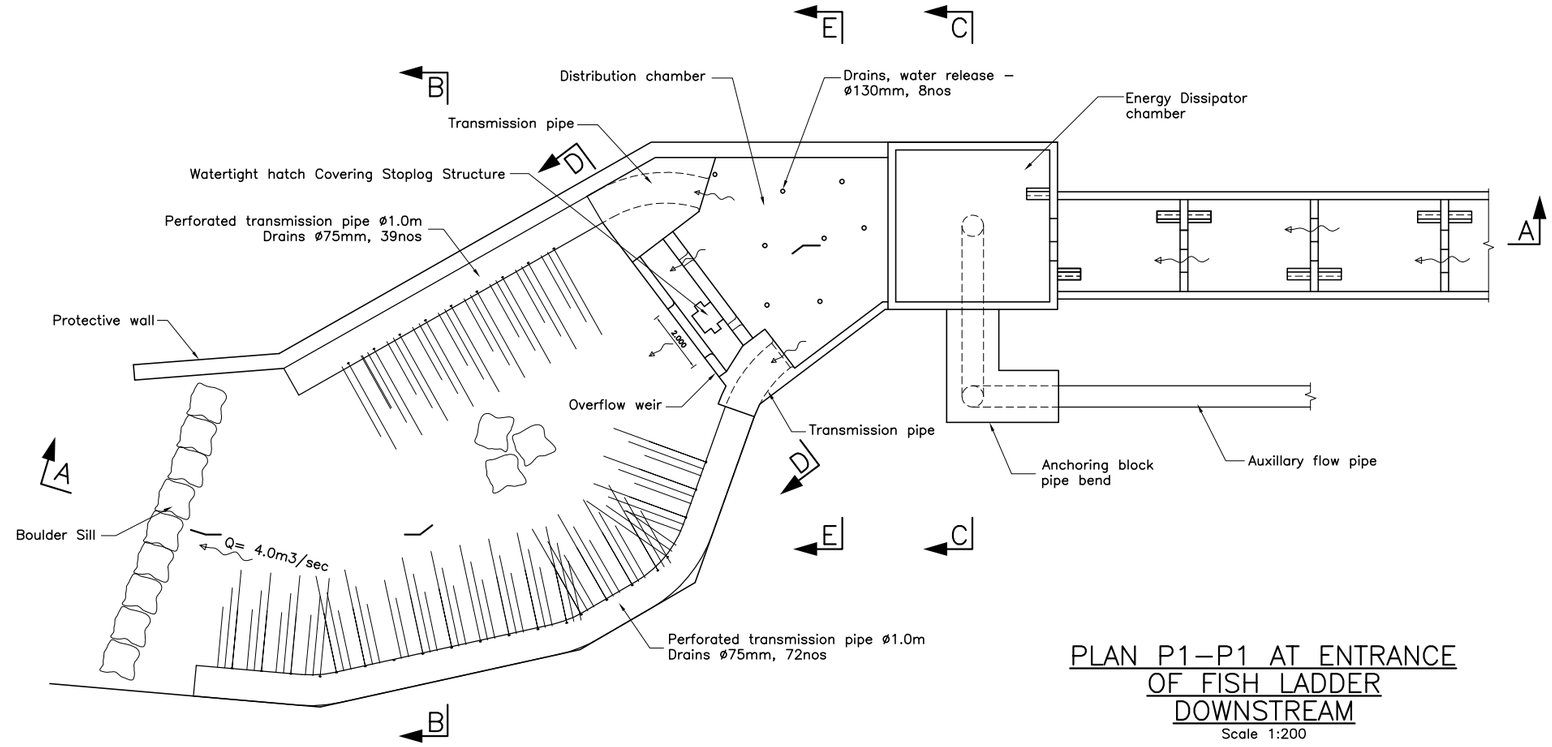
DRAWING NUMBER	SHEET NO.	REV. NO.
UT1–C–050–CVL–DG–49001–05	05 OF 09	0A

A3 (297 x 420 mm)



LONGITUDINAL SECTION AT A–A

Scale 1:200



PLAN P1–P1 AT ENTRANCE OF FISH LADDER DOWNSTREAM

Scale 1:200

NOTE

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2. This drawing is a draft design of the fish ladder and is subjected to the detail design.

m 2 0 2 4 8 10m

Scale 1:200

REFERENCE DRAWINGS

UT1–C–020–CVL–DG–44004–0A	CONCRETE OUTLINE DRAWING OF WEIR

SYMBOL AND LEGEND

C24/Primary Concreting
Backfill
Elevation lines
Section lines
C30 Concrete
C50 Concrete

FOR INFORMATION

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REV. NO.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0A	19.OCT.2023	For Information	ShG/SaP	PRATIK B.	AJOY K.

PROJECT TITLE

Upper Trishuli–1 HEP (216 MW)

OWNER

NWEDC

OWNER'S ENGINEER

TRACTEBEL ENGIE jade CONSULT

CONTRACTOR

DOOSAN Enerbility

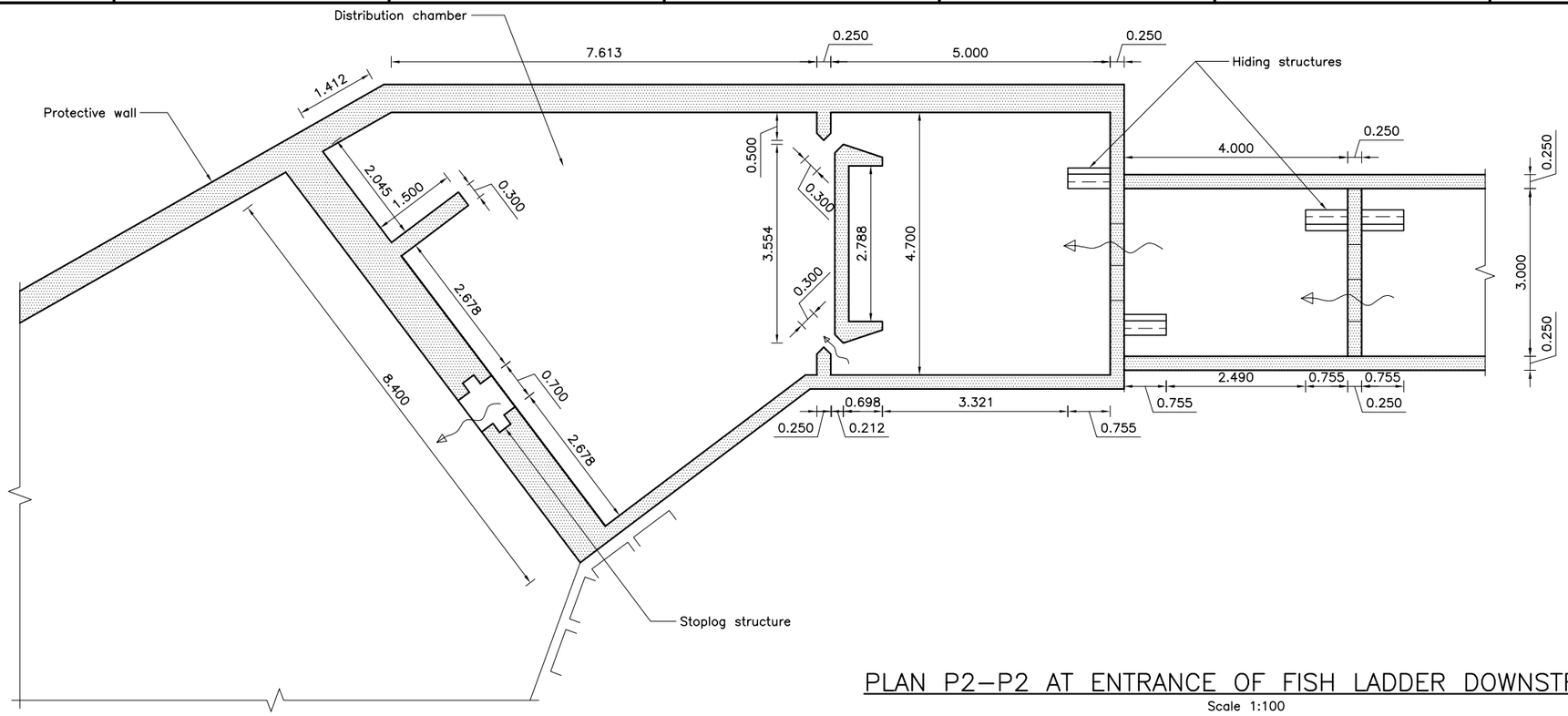
DRAWING TITLE

LAYOUT DRAWING OF FISH LADDER

PLAN AND SECTION

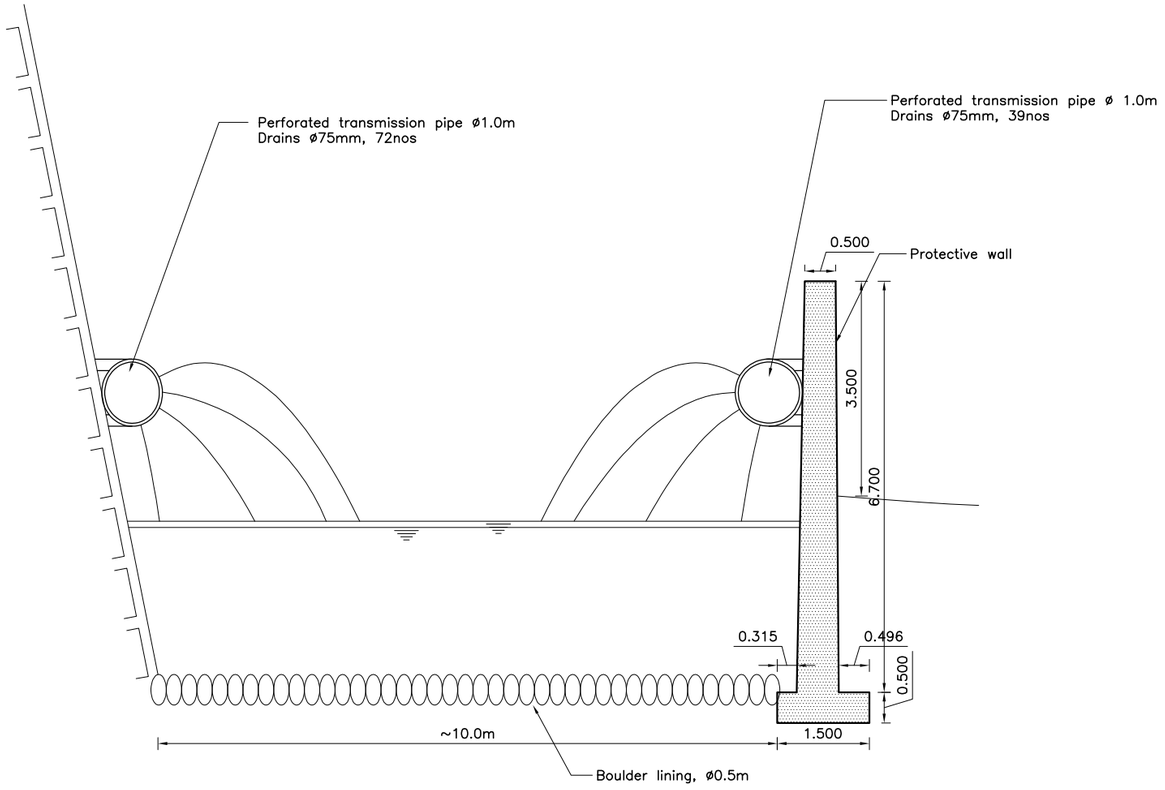
DRAWING NUMBER	SHEET NO.	REV. NO.
UT1–C–050–CVL–DG–49001–06	06 OF 09	0B

A3 (297 x 420 mm)



PLAN P2–P2 AT ENTRANCE OF FISH LADDER DOWNSTREAM

Scale 1:100



SECTION AT B–B

Scale 1:100

NOTE

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2. This drawing is a draft design of the fish ladder and is subjected to the detail design.

m 1 0 1 2 3 4 m

Scale 1:100

REFERENCE DRAWINGS

UT1–C–020–CVL–DG–44004–0A	CONCRETE OUTLINE DRAWING OF WEIR

SYMBOL AND LEGEND

- C24/Primary Concreting
- Backfill
- Elevation lines
- Section lines
- C30 Concrete
- C50 Concrete

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REV. NO.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0A	19.OCT.2023	For Information	ShG/SaP	PRATIK B.	AJOY K.

PROJECT TITLE

Upper Trishuli–1 HEP (216 MW)

OWNER

NWEDC NEPAL WATER AND ENERGY DEVELOPMENT CO. PVT. LTD.

OWNER'S ENGINEER

TRACTEBEL ENGIE | jade CONSULT

CONTRACTOR

DOOSAN Enerbility

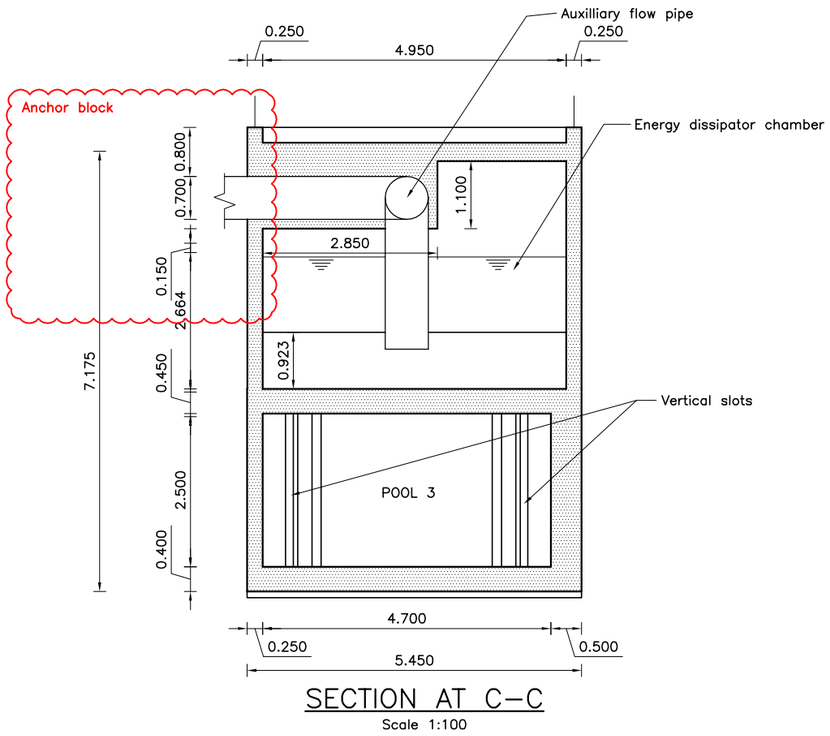
DRAWING TITLE

LAYOUT DRAWING OF FISH LADDER

DETAILS

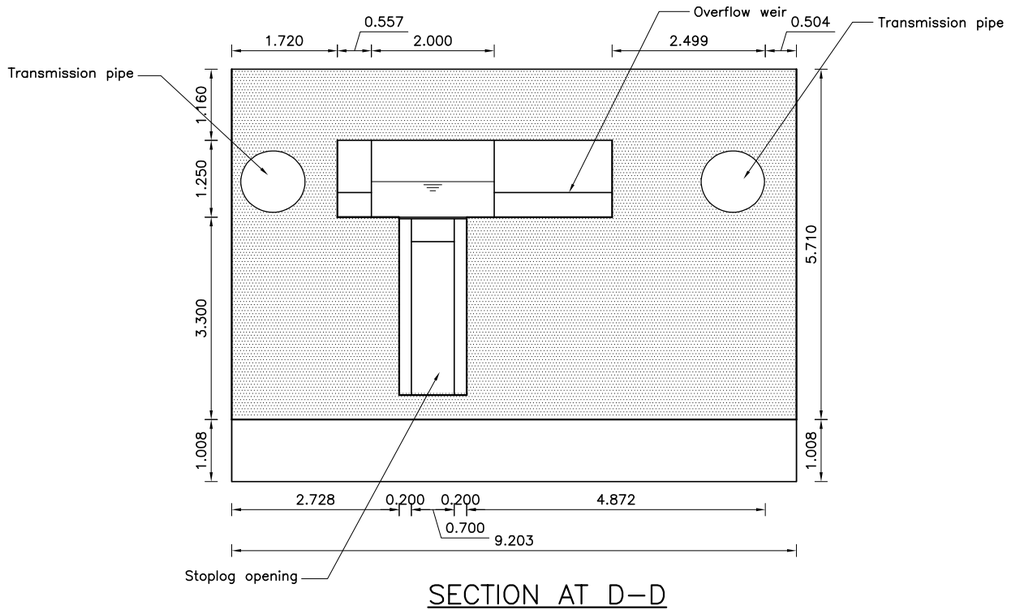
DRAWING NUMBER	SHEET NO.	REV. NO.
UT1–C–050–CVL–DG–49001–07	07 OF 09	0B

A3 (297 x 420 mm)



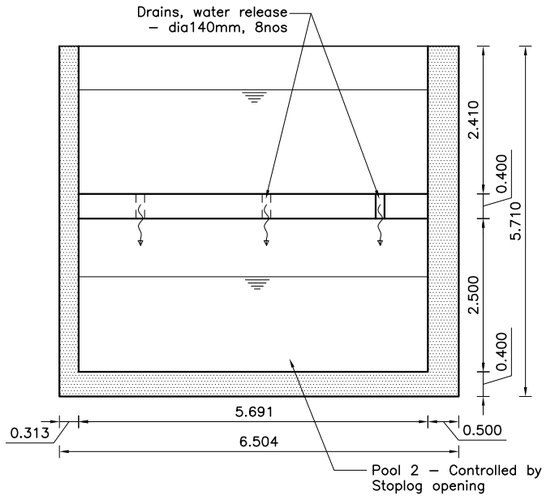
SECTION AT C–C

Scale 1:100



SECTION AT D–D

Scale 1:100



SECTION AT E–E

Scale 1:100

NOTE

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2. This drawing is a draft design of the fish ladder and is subjected to the detail design.

m 1 0 1 2 3 4 m

Scale 1:100

REFERENCE DRAWINGS

UT1–C–020–CVL–DG–44004–0A	CONCRETE OUTLINE DRAWING OF WEIR

SYMBOL AND LEGEND

- C24/Primary Concreting
- Backfill
- Elevation lines
- Section lines
- C30 Concrete
- C50 Concrete

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REV. NO.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0A	19.OCT.2023	For Information	ShG/SaP	PRATIK B.	AJOY K.

PROJECT TITLE

Upper Trishuli–1 HEP (216 MW)

OWNER

NWEDC

OWNER'S ENGINEER

TRACTEBEL ENGIE | jade CONSULT

CONTRACTOR

DOOSAN Enerbility

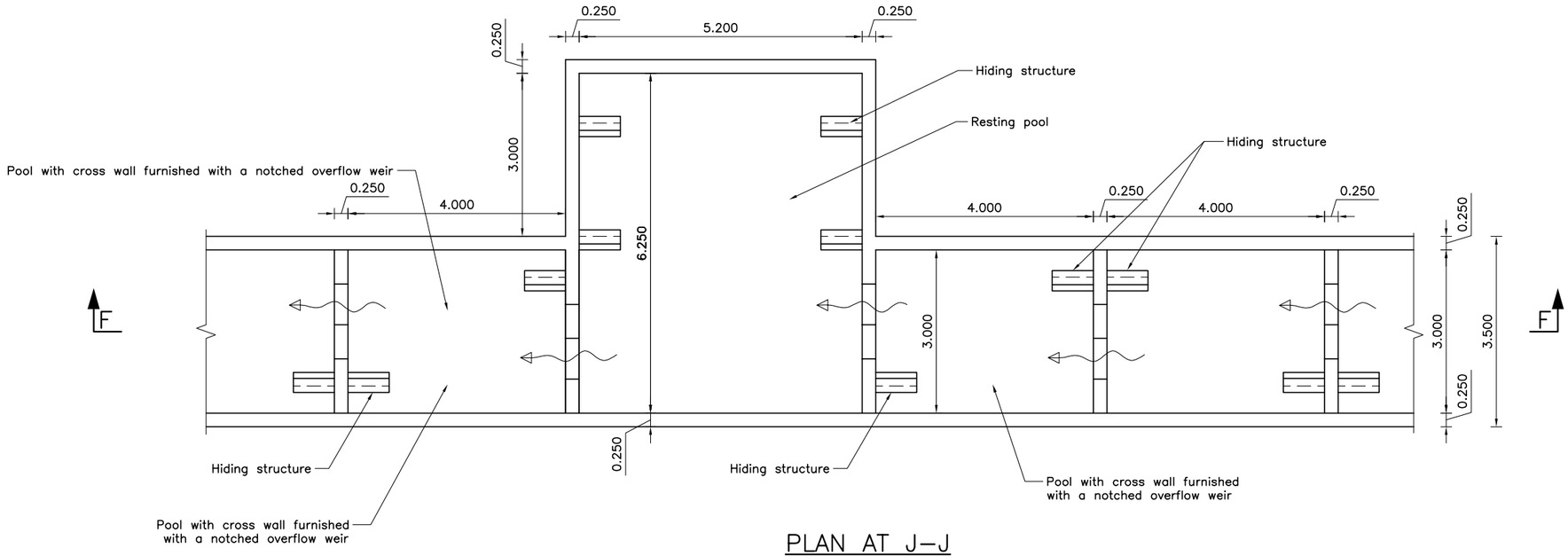
DRAWING TITLE

LAYOUT DRAWING OF FISH LADDER

SECTIONS

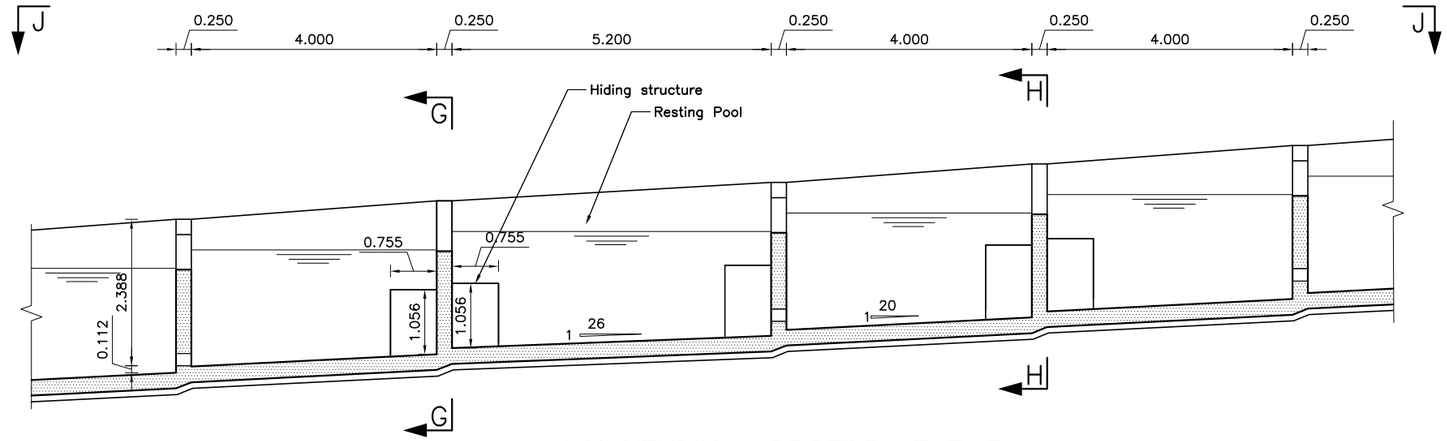
DRAWING NUMBER	SHEET NO.	REV. NO.
UT1–C–050–CVL–DG–49001–08	08 OF 09	0A

A3 (297 x 420 mm)



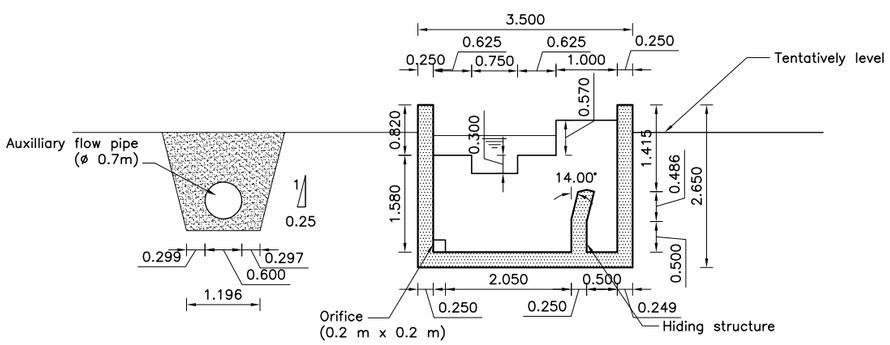
PLAN AT J–J

Scale 1:100



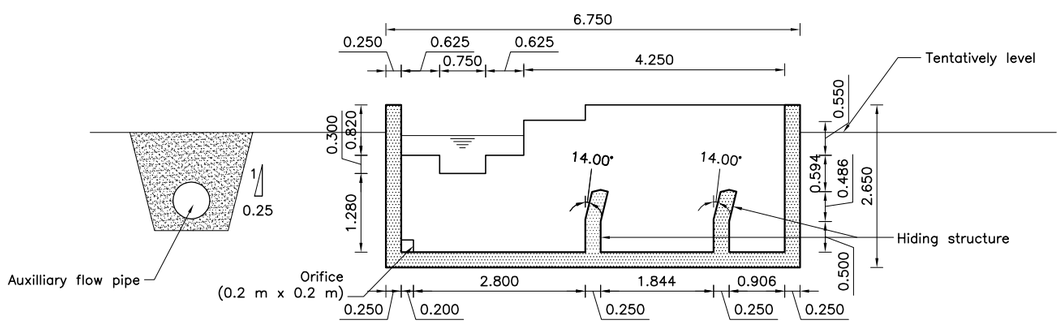
LONGITUDINAL PROFILE AT F–F

Scale 1:100



SECTION AT H–H

Scale 1:100



SECTION AT G–G

Scale 1:100

NOTE

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m 1 0 1 2 3 4 m

Scale 1:100

REFERENCE DRAWINGS

UT1–C–020–CVL–DG–44004–0A	CONCRETE OUTLINE DRAWING OF WEIR

SYMBOL AND LEGEND

- C24/Primary Concreting
- C30 Concrete
- Backfill
- C50 Concrete
- Elevation lines
- Section lines

FOR INFORMATION

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REV. NO.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0A	19.OCT.2023	For Information	ShG/SaP	PRATIK B.	AJOY K.

PROJECT TITLE

Upper Trishuli–1 HEP (216 MW)

OWNER

NWEDC

OWNER'S ENGINEER

TRACTEBEL ENGIE · jade CONSULT

CONTRACTOR

DOOSAN Enerbility

DRAWING TITLE

LAYOUT DRAWING OF FISH LADDER

PLAN PROFILE AND SECTIONS

DRAWING NUMBER	SHEET NO.	REV. NO.
UT1–C–050–CVL–DG–49001–09	09 OF 09	0A

A3 (297 x 420 mm)